

STATE: _____
Attachment 1

AGENCY _____

For FY2012 and FY2013 Funds

Workplan for Use of Section 106 Monitoring Initiative FY 2013 Funds

Revised 2/7/13

Part A. Implementation of Monitoring Strategies

Please identify how your State plans to use the FY 12 and FY 13 Monitoring Initiative Strategy Implementation funds. It is important to keep in mind that these funds should be used for new, expanded or enhanced monitoring activities that will build upon the State's base monitoring programs as described in the State's Monitoring Strategy. In addition to the table below, States must submit a 1-2 page narrative workplan that describes in more detail the tasks listed including how the activity links to the State's monitoring strategy in terms of which gap, deficiency, timeline element, etc. is being addressed.

Some examples of program enhancement include:

- Adoption of statistically valid monitoring designs and assessment methodologies to expand coverage of waters and assessments
- Migration to Water Quality Exchange for data sharing and uploading of ambient monitoring data to national STORET warehouse
- of the use and rigor of biological monitoring and the development of improved assessment, stressor identification, and reporting tools
- Development of new tools such as predictive technology and remote sensing to refine applications of monitoring data

Expansion

Task/Description of Activity	Products and/or Deliverables (outputs)	Environmental Outcomes (related to EPA Strategic Plan)	Expected Cost	Planned Completion Date	Identify how this task links to Monitoring Strategy (which gap, weakness, timeline element does this task address?)	National Database e.g., STORET, ATTAINS, other	Additional Information
Task #1: Collect and analyze bacteriological samples to determine recreational use attainment status. Work with citizen volunteer monitors to coordinate the collection of at least 2 sets of 5-day geometric means of coliform bacteria densities in a 30-day period.	Geometric means and maximums from the 2 sets of samples will be compared to criteria for recreational use assessments. The assessment results will be reported in the Integrated Water Quality Monitoring and Assessment Report (Integrated Report).	Assessments of recreational use	\$30,000.00	Dec. 31, 2013	Will increase the total stream miles assessed for recreational use (currently less than 1% of miles assessed).	Assessment results will be entered into the state assessment database which can be transferred to EPA. Information is also reported in the Integrated Report.	Funds will be used to cover accredited independent laboratory cost. Local laboratories must be used due to short holding time of samples.
Task #2: Maintain upgraded PA WQN parameter coverage to enable support of BLM calculations.	Will enable BLM calculations	Develop site-specific WQS as needed.	\$16,000.00	Dec. 31, 2013		Data transferred to STORET	

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Task #3: Sponsor water quality workshops including annual statewide water quality biologist meeting to facilitate dialog between regional and central office staff. Provide funding to train multiple staff at numerous meetings and workshops including the annual meeting of Association of Mid-Atlantic Aquatic Biologist at Cacapon State Park in WV, annual Mid-Atlantic NPS/TMDL/WQS/WQM Training Workshop and other trainings and workshops that improve staff proficiency in water quality monitoring activities, watershed modeling, statistical analysis and use of geographic information systems.	Enhanced communication between staff located throughout the Commonwealth will prevent duplication of effort and identify monitoring and assessment needs that should be addressed. Staff attendance at national meetings will improve state efforts to meet national goals and improve state proficiency with water quality monitoring and assessment.	More effective monitoring and assessment that will produce cost savings by reducing duplication of efforts.	\$16,000.00	Dec. 31, 2013		Not Applicable	
Task #4: Process and identify macroinvertebrates collected at WQN stations and other surface water assessment sample stations.	Improved understanding of the relationship between biotic factors and long-term chemistry. Will result in refinements to macroinvertebrate IBIs and improved assessment decisions.	More effective aquatic life use assessments reported in the Integrated Report	\$19,000.00	Dec. 31, 2013		Data transferred to STORET	
Task #5: Replacement of multiple continuous data loggers (data sondes) and probes to monitoring water quality parameters on an on-going basis.	Uninterrupted surveillance of water quality at multiple points within watersheds creates a long-term permanent record of effects and trends.	Continuous monitoring will allow for the detection of new pollution sources and provides a permanent record of long-term water quality. Will lead to better waterbody assessments and protection of aquatic life and human health.	\$35,000.00	Dec. 31, 2013		Continuous WQ data stored in AQUARIUS software, might be possible to transfer to STORET	
Task #6: Purchase new and replacement equipment and supplies expended during normal sampling operations supporting statewide monitoring conducted for use attainment reporting in accordance with CWA Sections 303(d) and 305(b).	Ethanol, D-frame nets, forceps, field meters, buffer solutions, sample bottles, VOA vials, taxonomic keys, and other equipment and supplies.	Allow for continued monitoring and assessment of all protected water uses attainment status.	\$10,000.00	Dec. 31, 2013		Not Applicable	

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<p>Task #7: Conduct continued study of Susquehanna River to determine attainment status of all designated uses. For 2013 the project has been expanded to monitor several major tributaries as well as existing and new locations on the mainstem. Monitoring will include use of data loggers for DO, pH, Temperature and Conductance; macroinvertebrates; fish; mussels; algae and nutrients and develop monitoring program for recreational use specific to large waterbodies.</p>	<p>Assessment results generated from the survey will be reported in the Integrated Report.</p>	<p>Allow for continued monitoring and assessment of all protected water uses attainment status.</p>	<p>\$44,000.00</p>	<p>Dec. 31, 2013</p>		<p>Assessment results will be entered into the state assessment database which can be transferred to EPA. Information is also reported in the Integrated Report.</p>	<p>A portion of funds will be used to conduct analysis on algal species identification and biofilm fatty acid composition. Support contracting with outside laboratory to conduct analysis on biofilm fatty acid pesticide, herbicide and hormone samples. This study is a priority project and has been greatly expanded from the previous year which requires more resources in both money and personnel.</p>
				\$170,000.00			



State currently has and will continue to implement state-scale statistical surveys - Y/N. If no, please explain

